

Standards Connections

Aligning Stages Skills with the Massachusetts* Curriculum Frameworks

Stages Skills:

STAGE FOUR:
Early Concepts

Math Readiness
Quantify

❖ Number Identification

❖ Counting

❖ Colors

❖ Shapes

❖ Patterns

Massachusetts Curriculum Framework:

MATHEMATICS STRAND 1:

Number Sense and Operations

Learning Standard #A.1: (PreK-K)

Students will match quantities up to at least 10 with numerals and words.

Learning Standard #A.2: (PreK-K)

Students will count by ones to at least 20.

MATHEMATICS STRAND 2:

Patterns, Relationships, Algebra

Learning Standard #A.1: (PreK-K)

Students will identify the attributes of objects as a foundation for sorting and classifying.

Learning Standard #A.2: (PreK-K)

Students will sort and classify objects by color, shape, size, number, and other properties.

MATHEMATICS STRAND 3:

Geometry

Learning Standard #A.1: (PreK-K)

Students will name, describe, sort, and draw simple two-dimensional shapes

MATHEMATICS STRAND 2:

Patterns, Relationships, Algebra

Learning Standard #A3: (PreK-K)

Students will identify, reproduce, describe, extend, and create color, rhythmic, shape, number, and letter repeating patterns with simple attributes.

* While this document reveals the correlation between *Stages* and the Massachusetts curricular standards, similar comparisons may be made between *Stages* and any other state's standards.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

| Stages Skills: | Massachusetts Curriculum Framework: |
|--|--|
| STAGE FOUR: Early Concepts | |
| Math Readiness | MATHEMATICS STRAND 4: Measurement <i>Learning Standard #A.1: (PreK-K)</i> Students will recognize and compare the attributes of length, volume/capacity, weight, area, and time using appropriate language (e.g. longer, taller, shorter, etc.). <i>Learning Standard #B.1: (PreK-K)</i> Students will make and use estimates of measurements from everyday experiences. |
| Compare <ul style="list-style-type: none">❖ Estimating | |
| | MATHEMATICS STRAND 3: Geometry <i>Learning Standard #B.1: (PreK-K)</i> Students will identify positions of objects in space, and use appropriate language (e.g. above, below) to describe and compare their relative positions. |
| ❖ Spatial Relationships | |
| Reading Readiness | LANGUAGE STRAND: <i>Learning Standard #4:</i> Students will acquire and use correctly an advanced reading vocabulary of English words, identifying meanings through an understanding of word relationships. |
| ❖ Letter Identification | |
| ❖ Letter Sounds | LITERATURE STRAND: <i>Learning Standard #8:</i> Students will decode accurately and understand new words encountered in their reading materials, drawing on a variety of strategies as needed, and then use these words accurately in speaking and writing. |

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

| Stages Skills: | Massachusetts Curriculum Framework: |
|--|--|
| STAGE FIVE: Advanced Concepts & Communications | |
| Math Fractions | MATHEMATICS STRAND 1: Number Sense and Operations |
| | <i>Learning Standard #A.4: (PreK-K)</i> Students will understand the concepts of whole and half. |
| ❖ identification ❖ application | <i>Learning Standard #A.4: (Grades 1-2)</i> Students will identify and represent common fractions, as parts of wholes, parts of groups, and numbers on the number line. |
| Computation | <i>Learning Standard #B.1: (PreK-K)</i> Students will model and solve addition problems to 10 and related subtraction facts using objects and drawings. |
| ❖ math facts (+ and -) | <i>Learning Standard #C.1: (Grades 1-2)</i> Students will know addition facts (addends to ten) and related subtraction facts and use them to solve problems. |
| ❖ math facts (x and ÷) | <i>Learning Standard #C.1: (Grades 3-4)</i> Students will select, use, and explain various meanings and models of multiplication and division of whole numbers. |

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

STAGE FIVE:
Advanced Concepts &
Communications

Math

Geometry

- ❖ perimeter
- ❖ area
- ❖ volume

Massachusetts Curriculum Framework:

MATHEMATICS STRAND 3:

Geometry

Learning Standard #A.1: (Grades 1-2)

Students will describe attributes and parts of two and three dimensional shapes, e.g., length of sides, and number of corners, edges, faces, and sides.

MATHEMATICS STRAND 4:

Measurement

Learning Standard #A.3: (Grades 1-2)

Students will compare the length, width, area, and volume of two or more objects by direct comparison.

Learning Standard #A.1: (Grades 3-4)

Students will demonstrate an understanding of such attributes as length, area, weight, and volume, and select the appropriate type of unit for measuring each attribute.

Learning Standard #B.2: (Grades 3-4)

Students will estimate and find area and perimeter of a rectangle using diagrams, models, or grids or by measuring.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

STAGE FIVE:

Advanced Concepts &
Communications

Math

Charts and Graphs

- ❖ bar
- ❖ pie
- ❖ line

Massachusetts Curriculum Framework:

MATHEMATICS STRAND 2:

Patterns, Relationships, Algebra

Learning Standard #C.1: (Grades 3-4)

Students will use pictures, models, tables, charts, graphs, words, number sentences, and mathematical notations to interpret mathematical relationships.

MATHEMATICS STRAND 5:

Data Analysis, Statistics, and Probability

Learning Standard #B.1: (PreK-K)

Students will collect, organize, and draw conclusions about data using concrete objects, pictures, numbers, and graphs.

Learning Standard #B.1: (Grades 1-2)

Students will organize, classify, represent and interpret data using tallies, charts, tables, bar graphs, pictographs, and Venn Diagrams; interpret the explanations.

Learning Standard #C.1: (Grades 1-2)

Students will formulate inferences and make educated guesses about a situation based on information gained from data.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

Massachusetts Curriculum Framework:

STAGE FIVE:
Advanced Concepts &
Communications

Math

Computation

- ❖ Math Facts (+ and -)

MATHEMATICS STRAND 1: Number Sense and Operations

Learning Standard #B.1: (PreK-K)

Students will model and solve addition problems to 10 and related subtraction facts using objects and drawings.

Learning Standard #C.1: (Grades 1-2)

Students will know addition facts (addends to ten) and related subtraction facts and use them to solve problems.

- ❖ Math Facts (x and ÷)

Learning Standard #C.1: (Grades 3-4)

Students will select, use, and explain various meanings and models of multiplication and division of whole numbers.

- ❖ Word Problems (+ and -)

Learning Standard #C.4: (Grades 1-2)

Students will estimate, calculate, and solve problems involving addition and subtraction of 2-digit numbers.

- ❖ Word Problems (x and ÷)

Learning Standard #B.3: (Grades 3-4)

Students will select and use an appropriate operation (+, -, x, ÷) to solve problems, including those involving money.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

STAGE FIVE:

Advanced Concepts &
Communications

Math

- ❖ Problem Solving
- ❖ Number Guess
- ❖ Word Play
- ❖ Strategy Games
 - Tic-Tac-Toe
 - Mystery Games

Massachusetts Curriculum Framework:

MATHEMATICS STRAND 5:
Data Analysis, Statistics, and Probability

Learning Standard #B.1: (PreK-K)

Students will collect, sort, organize, and draw conclusions about data using concrete objects, pictures, numbers, and graphs.

Learning Standard #C.1: (Grades 1-2)

Students will formulate inferences and make educated guesses about a situation based on information gained from data.

Learning Standard #D.1: (Grades 1-2)

Students will decide which outcomes of experiments are most likely.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

| Stages Skills: | Massachusetts Curriculum Framework: |
|---|---|
| STAGE FIVE: Advanced Concepts & Communications | |
| Reading | LANGUAGE STRAND: |
| Letters | <i>Learning Standard #4:</i> |
| ❖ alphabetizing | Students will acquire and use correctly an advanced reading vocabulary of English words, identifying meanings through an understanding of word relationships. |
| Sounds | LANGUAGE STRAND: |
| ❖ rhyming | <i>Learning Standard #5:</i> |
| Meaning | Students will identify, describe, and apply knowledge of the structure of the English language and standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling. |
| ❖ matching pictures/words | |
| Context | LITERATURE STRAND: |
| ❖ sentence completion | <i>Learning Standard #8:</i> |
| | Students will decode accurately and understand new words encountered in their reading materials, drawing on a variety of strategies as needed, and then use these words accurately in speaking and writing. |

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

STAGE SIX:

Functional Learning
Telling Time

Massachusetts Curriculum Framework:

MATHEMATICS STRAND 4:
Measurement

Learning Standard #A.1: (Grades 1-2)

Students will identify parts of the day (E.g., morning, afternoon, evening), week, month, and calendar.

Learning Standard #A.2: (Grades 1-2)

Students will tell time at quarter hour intervals on analog and digital clocks using a.m. and p.m.

Learning Standard #A.2: (Grades 3-4)

Students will carry out simple unit conversions within a system of measurement, e.g., hours to minutes, cents to dollars, yards to feet or inches, etc.

Using Money

❖ Identification

MATHEMATICS STRAND 1:
Number Sense and Operations

Learning Standard #A.6: (PreK-K)

Students will identify U.S. coins by name.

❖ Equivalents

❖ Counting

Learning Standard #A.6: (Grades 1-2)

Students will identify the value of all U.S. coins, and \$1, \$5, \$10, and \$20 bills. Students will find the value of a collection of coins and dollar bills and use different ways to represent an amount of money up to \$5. Students will use appropriate notation, e.g. 69¢, \$1.35.

Standards Connections

Aligning Stages Skills with the Massachusetts Curriculum Frameworks

Stages Skills:

STAGE SEVEN:

Written Expression

Making Words

- ❖ Copying Words
- ❖ Typing High Frequency Words
- ❖ Building Rhymes

Making Sentences

- ❖ Building Sentences
- ❖ Spelling and Grammar
- ❖ Writing Sentences

Making Stories

Massachusetts Curriculum Framework:

COMPOSITION STRAND:

Learning Standard #19:

Students will write compositions with a clear focus, developing the composition with logically related ideas and supporting detail.

COMPOSITION STRAND:

Learning Standard #20:

Students will select and use appropriate genres, modes of reasoning, and speaking styles, when writing for different audiences and rhetorical purposes.

COMPOSITION STRAND:

Learning Standard #21:

Students will demonstrate improvement in organization, content, paragraph development, level of detail, style, tone, and word choice in their compositions after revising them.

COMPOSITION STRAND:

Learning Standard #22:

Students will use knowledge of standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling to edit their writing.